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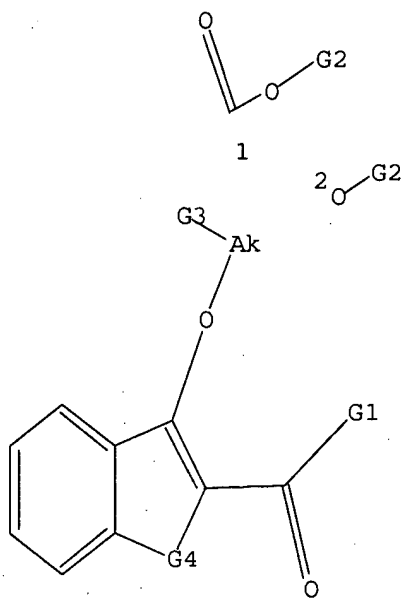
L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



G1 Cb,Ak

G2 H,Cb,Cy,Ak,Hy

G3 [@1],[@2]

G4 O,S

Structure attributes must be viewed using STN Express query preparation.

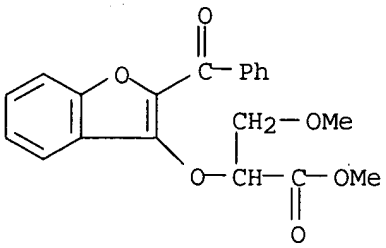
=> s l1 full
FULL SEARCH INITIATED 10:05:56 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 23699 TO ITERATE

100.0% PROCESSED 23699 ITERATIONS 13 ANSWERS
SEARCH TIME: 00.00.01

L2 13 SEA SSS FUL L1

=> d l2 1-13

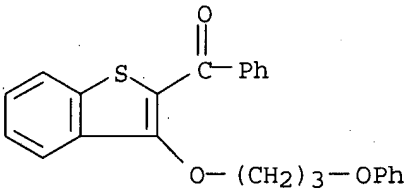
L2 ANSWER 1 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852430-81-0 REGISTRY
ED Entered STN: 16 Jun 2005
CN Propanoic acid, 2-[(2-benzoyl-3-benzofuranyl)oxy]-3-methoxy-, methyl ester (CA INDEX NAME)
OTHER NAMES:
CN Methyl 2-(2-Benzoylbenzofuran-3-yloxy)-3-methoxypropionate
MF C20 H18 O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

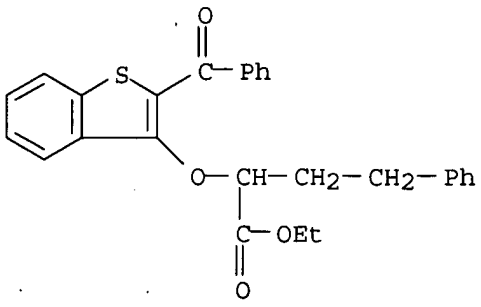
L2 ANSWER 2 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852430-19-4 REGISTRY
ED Entered STN: 16 Jun 2005
CN Methanone, [3-(3-phenoxypropoxy)benzo[b]thien-2-yl]phenyl- (CA INDEX NAME)
OTHER NAMES:
CN [3-(3-Phenoxypropoxy)benzo[b]thiophen-2-yl]phenylmethanone
MF C24 H20 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

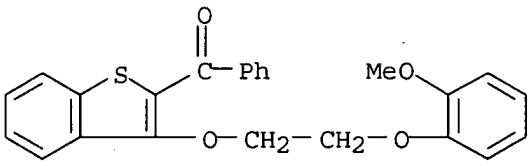
L2 ANSWER 3 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852430-18-3 REGISTRY
ED Entered STN: 16 Jun 2005
CN Benzenebutanoic acid, α-[(2-benzoylbenzo[b]thien-3-yl)oxy]-, ethyl ester (CA INDEX NAME)
OTHER NAMES:
CN Ethyl 2-[(2-benzoylbenzo[b]thiophen-3-yl)oxy]-4-phenylbutyrate
MF C27 H24 O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

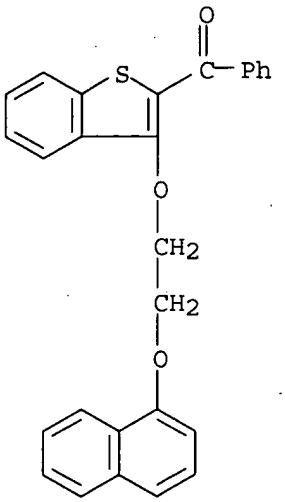
L2 ANSWER 4 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852430-16-1 REGISTRY
ED Entered STN: 16 Jun 2005
CN Methanone, [3-[2-(2-methoxyphenoxy)ethoxy]benzo[b]thien-2-yl]phenyl- (CA INDEX NAME)
OTHER NAMES:
CN [3-[2-(2-Methoxyphenoxy)ethoxy]benzo[b]thiophen-2-yl]phenylmethanone
MF C24 H20 O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

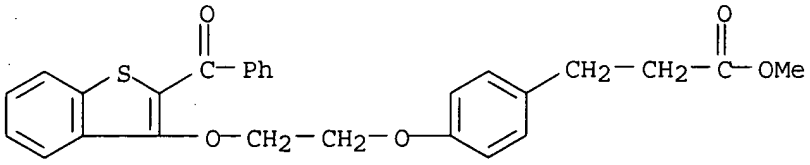
L2 ANSWER 5 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852430-15-0 REGISTRY
ED Entered STN: 16 Jun 2005
CN Methanone, [3-[2-(1-naphthalenyloxy)ethoxy]benzo[b]thien-2-yl]phenyl- (CA INDEX NAME)
OTHER NAMES:
CN [3-[2-(Naphthalen-1-yloxy)ethoxy]benzo[b]thiophen-2-yl]phenylmethanone
MF C27 H20 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

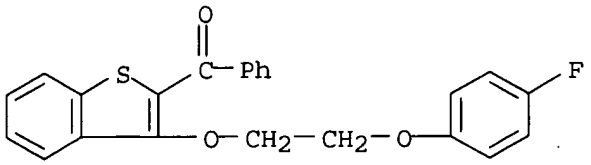
L2 ANSWER 6 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852430-14-9 REGISTRY
ED Entered STN: 16 Jun 2005
CN Benzenepropanoic acid, 4-[2-[(2-benzoylbenzo[b]thien-3-yl)oxy]ethoxy]-, methyl ester (CA INDEX NAME)
OTHER NAMES:
CN Methyl 3-[4-[2-[(2-Benzoylbenzothiophen-3-yl)oxy]ethoxy]phenyl]propionate
MF C27 H24 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

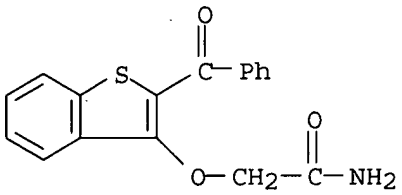
L2 ANSWER 7 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852430-12-7 REGISTRY
ED Entered STN: 16 Jun 2005
CN Methanone, [3-[2-(4-fluorophenoxy)ethoxy]benzo[b]thien-2-yl]phenyl- (CA INDEX NAME)
OTHER NAMES:
CN [3-[2-(4-Fluorophenoxy)ethoxy]benzo[b]thiophen-2-yl]phenylmethanone
MF C23 H17 F O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

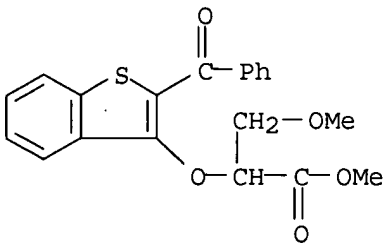
L2 ANSWER 8 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852430-11-6 REGISTRY
ED Entered STN: 16 Jun 2005
CN Acetamide, 2-[(2-benzoylbenzo[b]thien-3-yl)oxy]- (CA INDEX NAME)
OTHER NAMES:
CN 2-[(2-Benzoylbenzothiophen-3-yl)oxy]acetamide
MF C17 H13 N O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

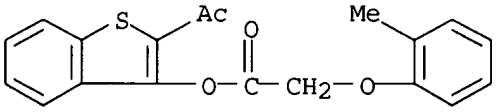
L2 ANSWER 9 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852430-00-3 REGISTRY
ED Entered STN: 16 Jun 2005
CN Propanoic acid, 2-[(2-benzoylbenzo[b]thien-3-yl)oxy]-3-methoxy-, methyl ester (CA INDEX NAME)
OTHER NAMES:
CN 2-[(2-Benzoylbenzothiophen-3-yl)oxy]-3-methoxypropionic acid methyl ester
MF C20 H18 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

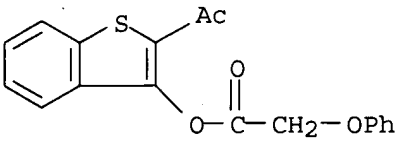
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 372977-92-9 REGISTRY
ED Entered STN: 03 Dec 2001
CN Acetic acid, (2-methylphenoxy)-, 2-acetylbenzo[b]thien-3-yl ester (9CI) (CA INDEX NAME)
MF C19 H16 O4 S
SR Chemical Library
Supplier: Interbioscreen Ltd.
LC STN Files: CHEMCATS



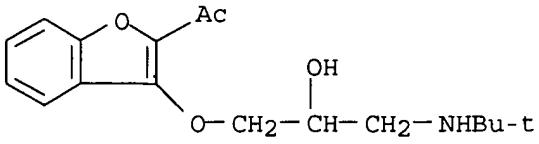
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 ANSWER 11 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 372972-28-6 REGISTRY
ED Entered STN: 03 Dec 2001
CN Acetic acid, phenoxy-, 2-acetylbenzo[b]thien-3-yl ester (9CI) (CA INDEX NAME)
MF C18 H14 O4 S
SR Chemical Library
Supplier: Interbioscreen Ltd.
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

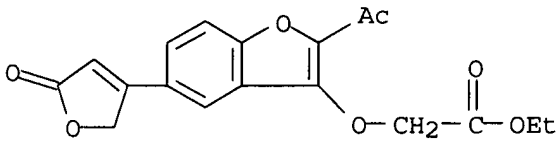
L2 ANSWER 12 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 39543-97-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanone, 1-[3-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy]-2-benzofuranyl]- (CA INDEX NAME)
OTHER NAMES:
CN 2-Acetyl-3-(2-hydroxy-3-tert-butylaminopropoxy)benzofuran
MF C17 H23 N O4
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 13 OF 13 REGISTRY COPYRIGHT 2008 ACS on STN
RN 15434-47-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Acetic acid, [[2-acetyl-5-(2,5-dihydro-5-oxo-3-furyl)-3-benzofuranyl]oxy]-, ethyl ester (8CI) (CA INDEX NAME)
MF C18 H16 O7
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	204.36	204.57

FILE 'CAPLUS' ENTERED AT 10:06:09 ON 06 JAN 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 6 Jan 2008 VOL 148 ISS 2
FILE LAST UPDATED: 4 Jan 2008 (20080104/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html

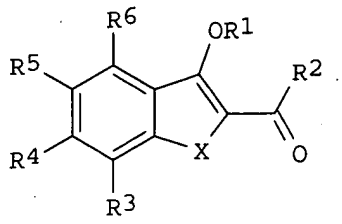
=> s l2
L3 4 L2

=> d l3 1-4 ibib abs hitstr

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:453342 CAPLUS
DOCUMENT NUMBER: 143:7588
TITLE: Preparation of benzofuran and benzothiophene derivatives as antidiabetic agents
INVENTOR(S): Moinet, Gerard; Leriche, Caroline; Kergoat, Micheline
PATENT ASSIGNEE(S): Merck Sante, Fr.
SOURCE: Fr. Demande, 55 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2862646	A1	20050527	FR 2003-13615	20031120
FR 2862646	B1	20060224		
AU 2004295036	A1	20050616	AU 2004-295036	20041108
CA 2546651	A1	20050616	CA 2004-2546651	20041108
WO 2005054226	A1	20050616	WO 2004-EP12620	20041108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1685122	A1	20060802	EP 2004-797711	20041108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1882562	A	20061220	CN 2004-80034191	20041108
BR 2004016790	A	20070306	BR 2004-16790	20041108
JP 2007511556	T	20070510	JP 2006-540238	20041108
IN 2006KN00984	A	20070420	IN 2006-KN984	20060419
MX 2006PA05591	A	20060811	MX 2006-PA5591	20060517
US 2007066680	A1	20070322	US 2006-579996	20060519
PRIORITY APPLN. INFO.:			FR 2003-13615 A	20031120
			WO 2004-EP12620 W	20041108

OTHER SOURCE(S): CASREACT 143:7588; MARPAT 143:7588
GI



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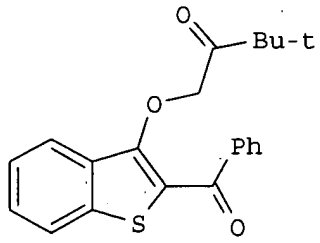


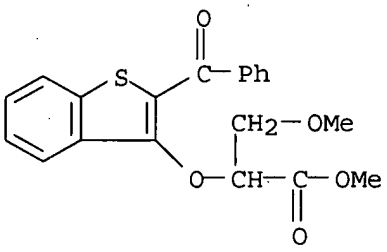
II

AB Title compds. I [wherein X = O, S; R1 = carboxyalkyl, alkoxyalkyl, arylalkyloxyalkyl, etc.; R2 = cyclo/alkyl, aryl; R3, R4, R5, R6 = independently H, halo, OH, alkyl, alkoxy, CN, CF3, NO2, NH2 and derivs.; their stereoisomers, racemates and pharmaceutically acceptable salts] were prepared as antidiabetic agents for treat diseases associated with insulin resistance syndrome. For example, II was prepared by cyclocondensation of thiosalicylic acid with 2-bromoacetophenone, followed by reaction with 1-bromopinacolone. In an in vitro test, at 10-6 M, °II displayed a glucose-induced stimulation factor of insulin secretion of 183% at a dose of 8 mM glucose digested by the pancreatic exocrine tissue od rats. II, when administered orally to NOSTZ rats, reduced glycemia level by 23%. Thus, and their compns. are used for treating hyperglycemia, diabetes, dyslipidemia, obesity, and microvascular and macrovascular complications arising from diabetes.

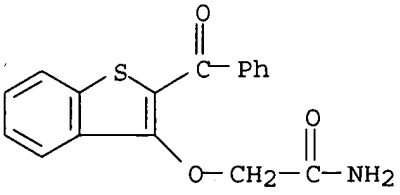
IT 852430-00-3P, 2-[(2-Benzoylbenzothiophen-3-yl)oxy]-3-methoxypropionic acid methyl ester 852430-11-6P, 2-[(2-Benzoylbenzothiophen-3-yl)oxy]acetamide 852430-12-7P, [3-[2-(4-Fluorophenoxy)ethoxy]benzo[b]thiophen-2-yl]phenylmethanone 852430-14-9P, Methyl 3-[4-[2-[(2-Benzoylbenzothiophen-3-yl)oxy]ethoxy]phenyl]propionate 852430-15-0P, [3-[2-(Naphthalen-1-yloxy)ethoxy]benzo[b]thiophen-2-yl]phenylmethanone 852430-16-1P, [3-[2-(2-Methoxyphenoxy)ethoxy]benzo[b]thiophen-2-yl]phenylmethanone 852430-18-3P, Ethyl 2-[(2-Benzoylbenzothiophen-3-yl)oxy]-4-phenylbutyrate 852430-19-4P, [3-(3-Phenoxypropoxy)benzo[b]thiophen-2-yl]phenylmethanone 852430-81-0P, Methyl 2-(2-Benzoylbenzofuran-3-yloxy)-3-methoxypropionate
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of benzofuran and benzothiophene derivs. as antidiabetic agents)

RN 852430-00-3 CAPLUS

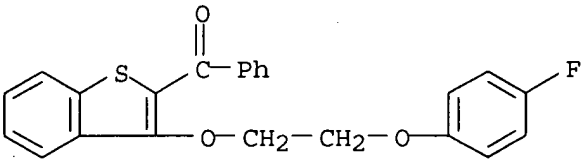
CN Propanoic acid, 2-[(2-benzoylbenzo[b]thien-3-yl)oxy]-3-methoxy-, methyl ester (CA INDEX NAME)



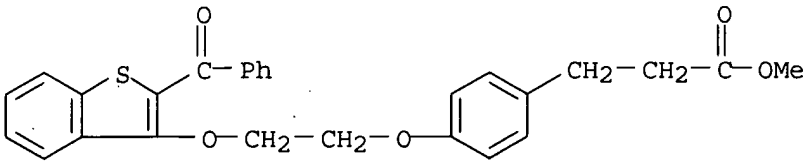
RN 852430-11-6 CAPLUS
CN Acetamide, 2-[(2-benzoylbenzo[b]thien-3-yl)oxy]- (CA INDEX NAME)



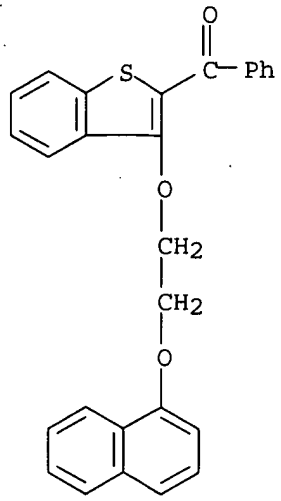
RN 852430-12-7 CAPLUS
CN Methanone, [3-[2-(4-fluorophenoxy)ethoxy]benzo[b]thien-2-yl]phenyl- (CA INDEX NAME)



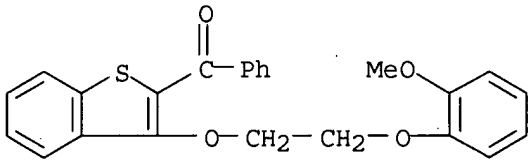
RN 852430-14-9 CAPLUS
CN Benzenepropanoic acid, 4-[2-[(2-benzoylbenzo[b]thien-3-yl)oxy]ethoxy]-, methyl ester (CA INDEX NAME)



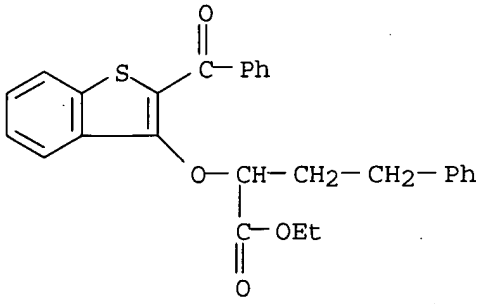
RN 852430-15-0 CAPLUS
CN Methanone, [3-[2-(1-naphthalenyloxy)ethoxy]benzo[b]thien-2-yl]phenyl- (CA INDEX NAME)



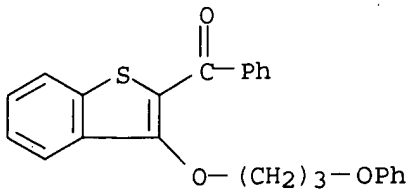
RN 852430-16-1 CAPLUS
CN Methanone, [3-[2-(2-methoxyphenoxy)ethoxy]benzo[b]thien-2-yl]phenyl- (CA INDEX NAME)



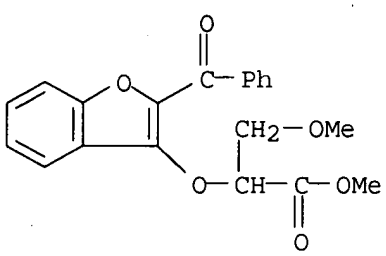
RN 852430-18-3 CAPLUS
CN Benzenebutanoic acid, α-[(2-benzoylbenzo[b]thien-3-yl)oxy]-, ethyl ester (CA INDEX NAME)



RN 852430-19-4 CAPLUS
CN Methanone, [3-(3-phenoxypropoxy)benzo[b]thien-2-yl]phenyl- (CA INDEX NAME)



RN 852430-81-0 CAPLUS
CN Propanoic acid, 2-[(2-benzoyl-3-benzofuranyl)oxy]-3-methoxy-, methyl ester (CA INDEX NAME)

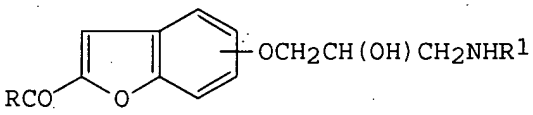


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1982:455684 CAPLUS
DOCUMENT NUMBER: 97:55684
ORIGINAL REFERENCE NO.: 97:9377a,9380a
TITLE: (2-Hydroxy-3-alkylaminopropoxy)benzofurans
PATENT ASSIGNEE(S): Kakenyaku Kako Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57040479	A	19820306	JP 1980-115635	19800821
ES 494881	A1	19810901	ES 1980-494881	19800908

PRIORITY APPLN. INFO.: JP 1980-115635 A 19800821
GI

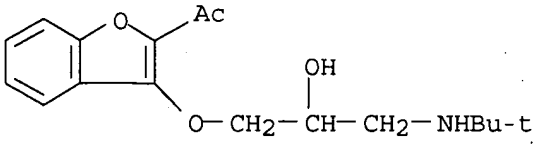


I

AB Seven benzofurans I (R = Me, EtO, Ph; R1 = CHMe2, CMe3), useful as adrenergic β-blockers (no data), were prepared by amination of tosyl esters, e.g., 2-acetyl-7-(2-hydroxy-3-tosyloxypropoxy)benzofuran (II). Thus, 2.5 g 2-acetyl-7-(2,3-dihydroxypropoxy)benzofuran was heated with 2.5 g tosyl chloride in C5H5N for 2 h to give 79% II, which (3.3 g) was stirred with 4 g H2NCHMe2 in MeCN at 50-60° for 14 h to give 64.1% I.HCl (R = Me, R1 = CHMe2 at 7-position). Its (+)- and (-)-isomers (bases) were prepared from (+)- and (-)-II, resp.

IT 39543-97-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 39543-97-0 CAPLUS
CN Ethanone, 1-[3-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy]-2-benzofuranyl]- (CA INDEX NAME)



L3 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1973:43256 CAPLUS
DOCUMENT NUMBER: 78:43256
ORIGINAL REFERENCE NO.: 78:6835a,6838a
TITLE: Pharmaceutical [3-(alkylamino)-2-hydroxypropoxy]benzofuran derivatives
INVENTOR(S): Ito, Kiyoshi; Ikemoto, Masahiko; Kumura, Kazuhiko; Nakanishi, Teruo
PATENT ASSIGNEE(S): Kakenyaku Kako Co., Ltd.
SOURCE: Ger. Offen., 52 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2223184	A	19721123	DE 1972-2223184	19720512
DE 2223184	B2	19790816		
DE 2223184	C3	19800430		
JP 50020062	B	19750711	JP 1971-52333	19710714
JP 48049755	A	19730713	JP 1971-86109	19711028
JP 50020063	B	19750711		
JP 48075561	A	19731011	JP 1972-4395	19720106
JP 55029993	B	19800807		
US 3853923	A	19741210	US 1972-251454	19720508
CA 989411	A1	19760518	CA 1972-141555	19720508
BE 783440	A1	19720901	BE 1972-117465	19720512
NL 7206433	A	19721115	NL 1972-6433	19720512
NL 166939	B	19810515		
NL 166939	C	19811015		
GB 1380129	A	19750108	GB 1972-22294	19720512
CH 587261	A5	19770429	CH 1972-7084	19720512
FR 2137901	A5	19721229	FR 1972-17290	19720515
FR 2137901	B1	19751031		
US 4056626	A	19771101	US 1976-662099	19760227

PRIORITY APPLN. INFO.:

JP 1971-32145	A	19710513
JP 1971-52333	A	19710714
JP 1971-86109	A	19711028
JP 1972-4395	A	19720106
US 1972-251454	A3	19720508
US 1974-447060	A3	19740228
US 1975-588195	A2	19750619

GI For diagram(s), see printed CA Issue.

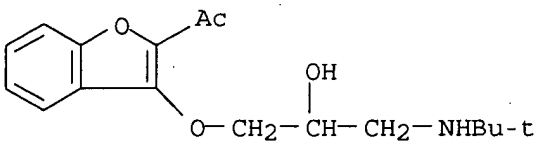
AB Thirty title compds. (I; OZ at 3, 4, 5, 6, 7; R = Et, MeCO, R3N:CMe; R1 = H, MeCO; R2 = H, MeCO, EtCO, PhCO, PhCH2CO, ZO; R3 = Pr, CHMe2, CMe3, CHMeEt, C5H11) and their hydrochlorides were prepared by successive reaction of II with epichlorohydrin (III) and R3NH2. Some I were used in animals as adrenergic β-receptor blockers for inhibiting isoproterenol effect. I were useful, e.g. against angina pectoris and as local narcotics. Thus, 8.8 g 2-acetyl-7-hydroxybenzofuran, III, and piperidine-HCl were heated 3 hr at 105° to give 9.3 g 2-acetyl-7-(2,3-epoxypropoxy) benzofuran (IV). IV (6 g) and Me2CHNH2 were refluxed 40 min in EtOH to give 6 g I (R = MeCO, R1 = R2 = H, R3 = CHMe2,

OZ at 7) (V). V had LD50 100-5 mg/kg i.v. in mice.

IT 39543-97-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 39543-97-0 CAPLUS

CN Ethanone, 1-[3-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy]-2-benzofuranyl]- (CA INDEX NAME)



L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1967:464145 CAPLUS

DOCUMENT NUMBER: 67:64145

ORIGINAL REFERENCE NO.: 67:12047a,12050a

TITLE: Investigations on 2-butene-4-olides. IV. Benzofurans with a butenolide ring

AUTHOR(S): Schmitt, Josef; Suquet, Michel; Callet, Georges; Le Meur, Jacques; Comoy, Pierre

CORPORATE SOURCE: Centre Rech. Estab. Clin-Byla, Paris, Fr.

SOURCE: Bulletin de la Societe Chimique de France (1967), (1), 74-84
CODEN: BSCFAS; ISSN: 0037-8968

DOCUMENT TYPE: Journal

LANGUAGE: French

GI For diagram(s), see printed CA Issue.

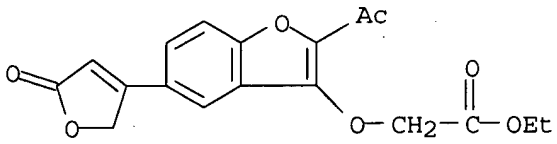
AB CA 66: 55297v. The preparation is described of benzofurans substituted in the 5-position by the butenolide ring from o-hydroxyacetophenones containing the same ring by condensing an aliphatic or aromatic haloketone with the appropriate phenol and then cyclizing the intermediate diketone to the furan ring. The keto derivs. are reduced to the corresponding alcs. The synthesis of 2-acetyl-5-(2-oxo-2,5-dihydro-4-furyl)-3-oxo-2,3-dihydrobenzofuran by the cyclization of 4-(3-chloroacetyl-4-acetoxyphenyl)-2-oxo-2,5-dihydrofuran and the preparation of the enol tautomers is described. 4-(3-Propionyl-4-hydroxyphenyl)-2-oxo-2,5-dihydrofuran (10 g.), 100 cc. HCONMe2, 10 g. K2CO3, and 2 g. NaI stirred 15 min. at room temperature, treated dropwise with 10 g. ClCH2Ac at 27-33°, and poured after 45 min. into 10 volume H2O yielded 9 g. yellow I (R = EtCO, R' = AcCH2) (II), m. 131-2° (absolute EtOH); method A. II gave a yellow color with concentrated H2SO4. [TABLE OMITTED] Similarly were prepared the I (R" = H) listed in the 1st table. II (44 g.) in 310 cc. EtOH treated gradually with 44 cc. 11N HCl gave 36 g. III (R = Et, R' = Me, R" = H) (IV), m. 182°; it gives a scarlet color with concentrated H2SO4; method B. Similarly were prepared the following I (R" = H) (R, R', m.p., and % yield given): MeCH(OH), MeCH(OH)CH2, 157-8° (AcOEt), 61; MeCH(OH), H2NCOCH2, 217° (MeOH), 85; MeCH(OH), pyrrolidinocarbonylmethyl, 153-4° (EtOH), 83. V (2.1 g.) in 30 cc. dry C6H6 refluxed 8 hrs. with 10 g. AlCl3 and worked up with 5.5N HCl gave the yellow III [R = Et, R' = 3,4,5-(HO)3C6H2, R" = H], m. 260° (AcOH); method C. Similarly were prepared the following III (R, R', m.p., reflux time in hrs., and % yield given): Et, p-HOC6H4 (VI), 290° (AcOH), 6, 69; Me, 3,4-(HO)2C6H3, 280° (AcOH), 8, 20; Et, o-HOC6H4, 258° (AcOH), 6, 69; Et, 3,4-(HO)2C6H3 (VII), m. 265-7°, 7, 53. IV (10.8 g.) in 54 cc. CH2Cl2 and 21.6 cc. MeOH treated gradually with stirring with 0.8 g. NaBH4 gave VIII (R = Et, R1 = Me, R2 = OH) (IX), m. 184° (EtOH); method D. Similarly were prepared the VIII (R3 = R4 = H) listed in the 2nd table. IX (2 g.) in 20 cc.

(PrCO)2O heated at 150° and evaporated gave 2 g. yellow VIII (R = Et, R1 = Me, R2 = PrCO2, R3 = R4 = H), m. 89° (cyclohexane-Et2O); method E. [TABLE OMITTED] Similarly were prepared III (R = Et, R' = 3,4-(AcO)2C6H3, R" = H) m. 183-4° (AcOEt), 64; and (X, R = AcO, R' = Ac), m. 225° (AcOH), 57. Also prepared are the III (R2 = H) in the 3rd table. IX (2 g.) in 20 cc. dry C5H5N refluxed 1 hr. on the steam bath with 2 g. succinic anhydride gave 1.75 g. yellowish-white VIII (R = Et, R1 = Me, R2 = HO2CCH2CH2CO2) (XI), m. 138-40°. [TABLE OMITTED] Similarly was prepared during 0.5 hr. at 100° VIII (R = R1 = Me, R2 = HO2CCH2CH2CO2) (XII), m. 144° (AcOEt), 77. IX (2 g.) in 30 cc. CH2Cl2 and 3 cc. 11N HCl refluxed 0.5 hr. gave 1.7 g. C16H15ClO3, m. 138° (iso-Pr2O); a 2-g. portion in 20 cc. MeOH refluxed 1 hr. yielded 0.8 g. VIII (R = Et, R1 = Me, R2 = MeO, R3 = R4 = H), m. 123° (iso-Pr2O). XIII (5.67 g.), 180 cc. CH2Cl2, and 2.45 g. Zn dust refluxed 7 hrs. with 7.5 g. BrCH2CO2Et and 50 mg. HgCl gave 3.9 g. yellowish white VIII [R = Me, R1 = 3,4-(MeO)2C6H3, R2 = EtO2CCH2, R3 = OH, R4 = H], m. 136-7° (iso-Pr2O). 4-(3-Chloroacetyl-4-acetoxyphenyl)-2-oxo-2,5-dihydrofuran (10 g.), 100 cc. HCONM2, and 15 g. K2CO3 stirred 0.5 hr. gave 6 g. yellow 2-acetyl-3-oxo-5-(2-oxo-2,5-dihydro-4-furyl)-2,3-dihydrobenzo[b]furan, m. above 260°. The physiol. activity values were determined for the following compds. (i.v. dose in mg./kg. administered, cardiotonic activity in the rat and dog related to ouabaine = 1, coronarodilator activity in the dog related to papaverine = 1, hypotensive activity in the dog, LD50 in mg.-kg. in the mouse intraperitoneally, subcutaneously, and orally given): VII, 2, -, -, 4.5, -34%, 700, -, -; XIV, 2, 0.81, 0.050, 1, - (slightly lowered), -, 1000, 1000; XII, 1 and 2, 0.20, 0.05, 2.5, -50%, -, 355, 550; IX, 1 and 2, 0.72, 0.070, 4, - (maximum increased), -, 1800, -; XI, 5, 0.25, -, 1, -46%, -, 300, 400; XV, 2, 0.50, 0.10, 4.2, -45%, 180, 1500, 1800; VI, 2, -, -, 2.7, -35%, -, -, -.

IT 15434-47-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 15434-47-6 CAPLUS

CN Acetic acid, [[2-acetyl-5-(2,5-dihydro-5-oxo-3-furyl)-3-benzofuranyl]oxy]-, ethyl ester (8CI) (CA INDEX NAME)



Inventor Name Search Result

Your Search was:

Last Name = MOINET
First Name = GERARD

Application#	Patent#	Status	Date Filed	Title	Inventor Name
06313185	Not Issued	161	10/20/1981	BENZOTHIAZOLE DERIVATIVES, PROCESS FOR THEIR PREPARATION AND THEIR THERAPEUTIC APPLICATIONS,	MOINET, GERARD
06564918	4647557	250	12/23/1983	NOVEL HETEROCYCLIC DERIVATIVES BEARING AN AMINO RADICAL, PROCESSES FOR THEIR PRODUCTION AND THE PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	MOINET, GERARD
06755594	Not Issued	161	07/16/1985	NEW 2-AMINO-OXAZOLINES AND A PROCESS FOR PRODUCING THEM	MOINET, GERARD
07062148	Not Issued	161	06/12/1987	NOVEL 2-AMINO-OXAZOLINES AND A PROCESS FOR PRODUCING THEM	MOINET, GERARD
07086731	4942221	150	08/04/1987	NEW PROCESS FOR OBTAINING ALPHA-AMINO NITRILES AND THEIR APPLICATIONS TO ORGANIC SYNTHESIS	MOINET, GERARD
07600188	Not Issued	161	10/17/1990	NOVEL ARYLOXY ALCOYL BENZENES, PROCESS FOR THEIR PREPARATION AS WELL AS THE PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	MOINET, GERARD
07994140	Not Issued	161	12/21/1992	NOVEL ARYLOXY ALCOYL BENZENES, PROCESSES FOR THEIR PREPARATION AS WELL AS THE PHARMACEUTICAL COMPOSITIONS CONTAINING THEM	MOINET, GERARD
08331687	Not Issued	161	10/31/1994	NOVEL ARYLOXY ALCOYL BENZENES, PROCESSES FOR THEIR PREPARATION AS WELL AS THE PHARMACEUTICAL	MOINET, GERARD

				COMPOSITIONS CONTAINING THEM	
08903352	Not Issued	169	07/30/1997	A- (1-PIPERAZINYL) ARENECARBOXYLIC ACID DERIVATIVES AND THEIR USE IN THE TREATMENT OF DIABETES	MOINET, GERARD
09202076	6437143	250	12/07/1998	NOVEL THIAZOLIDONE-2 DERIVATIVES, 4-DIKETONE SUBSTITUTED, METHOD FOR OBTAINING THEM AND PHARMACEUTICAL COMPOSITONS CONTAINING SAME	MOINET, GERARD
09230849	6143787	150	02/02/1999	PHARMACEUTICAL COMPOSITION CONTAINING 4-OXO-BUTYNIC ACIDS	MOINET, GERARD
09331155	6281215	250	10/20/1999	NEW 4-(1-PIPERAZINYL) BENZOIC ACID DERIVATIVES, PROCESS FOR PREPARING THEM AND THEIR THERAPEUTIC APPLICATIONS	MOINET, GERARD
09600294	6258804	150	07/14/2000	Triazepinones, process for their preparation and their therapeutic application	MOINET, GERARD
09744693	6376495	250	01/29/2001	ANTIDIABETIC PIPERAZINE DERIVATIVES, PROCESSES FOR THEIR PREPARATION AND COMPOSITIONS CONTAINING THEM	MOINET, GERARD
09869957	6518458	150	07/10/2001	(AMINOIMINOMETHYL) AMINO) ALKANECARBOXAMIDES AND THEIR APPLICATIONS IN THERAPY	MOINET, GERARD
10180071	Not Issued	161	06/27/2002	New substituted 2,4-thiazolidinedione derivatives, processes for producing them and pharmaceutical compositions containing them	MOINET, GERARD
10181223	7034021	150	07/15/2002	DIHYDRO-1,3,5-TRIAZINE AMINE DERIVATIVES AND THEIR THERAPEUTIC USES	MOINET, GERARD
10343609	Not Issued	161	02/03/2003	Pharmaceutical composition comprising metformin and a 5-phenoxyalkyl-2,4-thiazolidinedione-type derivative	MOINET, GERARD
10472081	Not Issued	161	09/17/2003	Pharmaceutical composition	MOINET, GERARD

10472228	Not Issued	94	09/22/2003	BICYCLIC GUANIDINE DERIVATIVES AND THERAPEUTIC USES THEREOF	MOINET, GERARD
10472229	7285681	150	09/22/2003	BIGUANIDE DERIVATIVES	MOINET, GERARD
10497145	Not Issued	61	05/28/2004	Pharmaceutical composition comprising a combination of metformin and a 4-oxobutanoic acid, and the use thereof for treating diabetes	MOINET, GERARD
10497491	Not Issued	71	06/03/2004	Use of 4-oxobutanoic acid derivatives in the treatment of inflammation	MOINET, GERARD
10500335	Not Issued	61	06/28/2004	Pharmaceutical composition comprising an alpha-glucosidase inhibitor and a 4-oxobutanoic acid, and the use thereof for treating diabetes	MOINET, GERARD
10501069	Not Issued	161	07/09/2004	Pharmaceutical composition comprising a glitazone and a 4-oxobutanoic acid, and the use thereof for treating diabetes	MOINET, GERARD
10541377	Not Issued	71	07/06/2005	Kynurenine 3-hydroxylase inhibitors for the treatment of diabetes	MOINET, GERARD
10541493	Not Issued	41	07/07/2005	Kynurenine 3-hydroxylase inhibitors for the treatment of diabetes by increasing the number of islets of langerhans cells	MOINET, GERARD
10579996	Not Issued	71	05/19/2006	Benzofurans and benzothiophenes	MOINET, GERARD
10580033	Not Issued	71	05/19/2006	Antidiabetic compounds comprising benzofuran and benzothiophene derivatives	MOINET, GERARD
10584151	Not Issued	41	06/22/2006	Acidic quinoline derivatives and their use for the prevention and/or treatment of hyperglycaemia-related pathologies	MOINET, GERARD
11085145	Not Issued	41	03/22/2005	DIHYDRO-1,3,5-TRIAZINE AMINE DERIVATIVES AND THEIR THERAPEUTIC USES	MOINET, GERARD
11630892	Not Issued	20	12/27/2006	Phenylcarboxylic Acid Derivatives and Use Thereof for the Treatment of Diabetes	MOINET, GERARD
08993320	Not Issued	161	12/18/1997	PIPERAZINE DERIVATIVES USEFUL AS HYPOGLYCEMIC AGENTS	MOINET, GERARD G.
06169326	Not Issued	161	07/16/1980	NOVEL DERIVATIVES OF 3,4,5-TRIMETHOXY CINNAMOYL	MOINET, GERARD H.

				PIPERAZINE, THE PROCESS FOR PREPARING THE SAME AND THEIR USE IN THERAPEUTICS	
06225588	4368199	150	01/16/1981	OVEL DERIVATIVES OF 3,4,5 TRIMETHOXY CINNAMOYL PIPERAZINE, THEIR SALTS, THE PROCESS FOR PREPARING THE SAME AND THEIR APPLICATION IN THERAPEUTICS	MOINET, GERARD H.
06331484	4386090	250	12/16/1981	NITROGEN CONTAINING 2,3-DIHYDRO NAPHTHALENES, COMPOSITIONS AND USE	MOINET, GERARD H.
06341415	4395416	250	01/21/1982	1-SPIRO ISOBENZOFURANIC AND 1-SPIRO ISOBENZOTHIOPHENIC DERIVATIVES THE PROCESS FOR PREPARING THE SAME AND THEIR USE IN THERAPEUTIC	MOINET, GERARD H.
06473182	4431851	250	03/08/1983	3-(HYDROXYALKYL)-3,4-DIHYDRO-1-ORTHALOPHENYL NAPHTHALENES	MOINET, GERARD H.
06473184	Not Issued	161	03/08/1983	NEW HETEROCYCLIC AMINOALCOYL DERIVATIVES, THE PROCESS FOR PREPARING SAME AND THE THERAPEUTICAL USE THEREOF	MOINET, GERARD H.
06552181	4504663	250	11/15/1983	3 -HYDROXYALKYL-3 4 DIHYDRO- 1-SUBSTITUTED ISOQUINOLINES	MOINET, GERARD H.

Inventor Search Completed: No Records to Display.

Search Another: Inventor **Last Name** MOINET **First Name** GERARD Search

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Inventor Name Search Result

Your Search was:

Last Name = LERICHE
First Name = CAROLINE

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10579996	Not Issued	71	05/19/2006	Benzofurans and benzothiophenes	LERICHE, CAROLINE
10580033	Not Issued	71	05/19/2006	Antidiabetic compounds comprising benzofuran and benzothiophene derivatives	LERICHE, CAROLINE

Inventor Search Completed: No Records to Display.

Search Another: Inventor **Last Name** LERICHE **First Name** CAROLINE Search

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Inventor Name Search Result

Your Search was:

Last Name = KERGOAT
First Name = MICHELINE

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08903352	Not Issued	169	07/30/1997	A- (1-PIPERAZINYL) ARENECARBOXYLIC ACID DERIVATIVES AND THEIR USE IN THE TREATMENT OF DIABETES	KERGOAT, MICHELINE
08993320	Not Issued	161	12/18/1997	PIPERAZINE DERIVATIVES USEFUL AS HYPOGLYCEMIC AGENTS	KERGOAT, MICHELINE
09202076	6437143	250	12/07/1998	NOVEL THIAZOLIDONE-2 DERIVATIVES, 4-DIKETONE SUBSTITUTED, METHOD FOR OBTAINING THEM AND PHARMACEUTICAL COMPOSITONS CONTAINING SAME	KERGOAT, MICHELINE
09230849	6143787	150	02/02/1999	PHARMACEUTICAL COMPOSITION CONTAINING 4-OXO-BUTYNIC ACIDS	KERGOAT, MICHELINE
09331155	6281215	250	10/20/1999	NEW 4-(1-PIPERAZINYL) BENZOIC ACID DERIVATIVES, PROCESS FOR PREPARING THEM AND THEIR THERAPEUTIC APPLICATIONS	KERGOAT, MICHELINE
09744693	6376495	250	01/29/2001	ANTIDIABETIC PIPERAZINE DERIVATIVES, PROCESSES FOR THEIR PREPARATION AND COMPOSITIONS CONTAINING THEM	KERGOAT, MICHELINE
09856547	Not Issued	161	05/23/2001	Use of benzoylguanidines for the treatment of non-insulin-dependent diabetes mellitus	KERGOAT, MICHELINE
09869957	6518458	150	07/10/2001	(AMINOIMINOMETHYL) AMINO) ALKANECARBOXAMIDES AND THEIR APPLICATIONS IN THERAPY	KERGOAT, MICHELINE

10180071	Not Issued	161	06/27/2002	New substituted 2,4-thiazolidinedione derivatives, processes for producing them and pharmaceutical compositions containing them	KERGOAT, MICHELINE
10181223	7034021	150	07/15/2002	DIHYDRO-1,3,5-TRIAZINE AMINE DERIVATIVES AND THEIR THERAPEUTIC USES	KERGOAT, MICHELINE
10541377	Not Issued	71	07/06/2005	Kynurenine 3-hydroxylase inhibitors for the treatment of diabetes	KERGOAT, MICHELINE
10541493	Not Issued	41	07/07/2005	Kynurenine 3-hydroxylase inhibitors for the treatment of diabetes by increasing the number of islets of langerhans cells	KERGOAT, MICHELINE
10579996	Not Issued	71	05/19/2006	Benzofurans and benzothiophenes	KERGOAT, MICHELINE
10580033	Not Issued	71	05/19/2006	Antidiabetic compounds comprising benzofuran and benzothiophene derivatives	KERGOAT, MICHELINE
11085145	Not Issued	41	03/22/2005	DIHYDRO-1,3,5-TRIAZINE AMINE DERIVATIVES AND THEIR THERAPEUTIC USES	KERGOAT, MICHELINE
11630892	Not Issued	20	12/27/2006	Phenylcarboxylic Acid Derivatives and Use Thereof for the Treatment of Diabetes	KERGOAT, MICHELINE

Inventor Search Completed: No Records to Display.

Search Another: Inventor **Last Name** KERGOAT **First Name** MICHELINE Search

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